In the Claims:

- 1. (Currently amended) A method of detecting the presence or absence of invasive trophoblast cells in a patient at risk for gestational trophoblastic disease or having a germ cell tumor comprising the steps of:
 - a. obtaining a urine, saliva, serum or plasma sample from said patient;
 - b. determining the amount of hCG in the sample wherein the amount of hCG comprises the total amount of intact hCG and ITA in the sample or comprises the total amount of intact hCG plus the amount of free β subunit of hCG and ITA in the sample;
 - c. determining the total amount of ITA in the sample in an immunoassay which determines the selective binding of monoclonal B152 to ITA;
 - d. determining the percentage of the amount of hCG determined in step b that is ITA, and
 - e. determining that invasive trophoblast cells are present in the patient if the percentage of the amount of HCG that is ITA determined in step d is 30% or greater such that a diagnosis of gestational trophoblastic disease or the existence of a germ cell tumor may be made.
- 2. (Previously presented) The method of claim 1, wherein the amount of hCG comprises the total amount of intact hCG and ITA plus the amount of free β sub unit of hCG in the sample.
- 3. (Cancelled)
- 4. (Cancelled)
- 5. (Previously presented) The method of claim 1, wherein the amount of hCG is total intact hCG plus ITA in the sample.
- 6. (Original) The method of claim 1, wherein the patient is a woman previously diagnosed as having a gestational trophoblastic disease.
- 7. (Original) The method of claim 6, wherein the gestational trophoblastic disease is hydatidiform mole.

- 8. (Original) The method of claim 6, wherein the gestational trophoblastic disease is choriocarcinoma.
- 9. (Previously presented) The method of claim 6, wherein the gestational trophoblastic disease is placenta-site trophoblastic tumor.
- 10. (Previously presnted) The method of claim 1, wherein the biological sample is urine, plasma or serum.
- 11. (Original) The method of claim 10 wherein the biological sample is urine.
- 12. (Currently amended) A method of diagnosing quiescent gestational trophoblastic disease in a patient previously diagnosed as having quiescent gestational trophoblastic disease or previously treated for diagnosed as having a gestational trophoblastic disease comprising the steps of:
 - a. obtaining a urine, saliva, serum or plasma sample from said patient, wherein said patient has persistently low hCG titers;
 - b. determining the amount of hCG in the sample wherein the amount of hCG comprises the total amount of intact hCG plus ITA in the sample or comprises the total amount of intact hCG plus ITA plus the amount of free β subunit of hCG in the sample;
 - c. determining the total amount of ITA in the sample in an immunoassay which determines the selective binding of monoclonal B152 to ITA;
 - d. determining the percentage of the amount of hCG from step b that is ITA, and
 - e. diagnosing quiescent gestational trophoblastic disease in said patient if the percentage of total hCG that is ITA determined in step (d) is less than 30%.
- 13. (Currently amended) The method of claim 12, wherein the patient is a woman previously diagnosed as having an invasive a gestational trophoblastic disease.
- 14. (Original) The method of claim 13, wherein the gestational trophoblastic disease is hydatidiform mole.
- 15. (Original) The method of claim 13, wherein the gestational trophoblastic disease is choriocarcinoma.

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- 16. (Original) The method of claim 13, wherein the gestational trophoblastic disease is placenta-site trophoblastic disease.
- 17-45. Cancelled.
- 46. (Previously presented) The method of claim 1, wherein the amount of hCG consists of intact hCG plus ITA
- 47. (Previously presented) The method of claim 12, wherein the amount of hCG comprises intact hCG, ITA and the free β subunit of hCG.